

Sequence Listing

#6



<110> Simmons, Laura C.
Klimowski, Laura
Reilly, Dorothea
Yansura, Daniel G.

<120> PROKARYOTICALLY PRODUCED ANTIBODIES AND USES THEREOF

<130> P1793R1

<140> US 10/020,786
<141> 2001-12-13

<150> US 60/256,164
<151> 2000-12-14

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<210> 1
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<212> DNA
<213> Artificial sequence

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<223> anti-TF vector

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tcgcaatatg ggcgaaaatg accaacagcg gttgattgat caggtagagg 200
gggcgctgta cgaggtaaag cccgatgccg gcattcctga cgacgatacg 250
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atagtcgctt tgtttttatt ttttaatgta tttgtaacta gtacgcaagt 400
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 ggacagcacc tacagcctca gcagcaccct gacgctgagc aaagcagact 1050
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<213> Artificial sequence

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<223> anti-VEGF vector

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<220>
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<210> 4
<211> 28
<212> DNA
<213> Artificial sequence

<220>
<223> probe

<400> 4
ctggtgagta ctcaaccaag tcattctg 28

11
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<211> 33
<212> DNA
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<220>
<223> probe

<400> 5
tgcacgggta acatgctgtg gtgtcatggc cgg 33

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<212> DNA
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<220>
<223> probe

<400> 6
tttaccggtta acaaacatcg ccggaac 27

<210> 7
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<212> DNA
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<220>

<223> probe

<400> 7

tcagctgccg gcgtccgatg cgaattattt accg 34

<210> 8

<211> 237

<212> PRT

<213> Artificial sequence

<220>

<223> anti-TF light chain

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Met Lys Lys Asn Ile Ala Phe Leu Leu Ala Ser Met Phe Val Phe
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Ser Ile Ala Thr Asn Ala Tyr Ala Asp Ile Gln Met Thr Gln Ser
20 25 30

Pro Ser Ser Leu Ser Ala Ser Val Gly Asp Arg Val Thr Ile Thr
35 40 45

Cys Arg Ala Ser Arg Asp Ile Lys Ser Tyr Leu Asn Trp Tyr Gln
50 55 60

Gln Lys Pro Gly Lys Ala Pro Lys Val Leu Ile Tyr Tyr Ala Thr
65 70 75

Ser Leu Ala Glu Gly Val Pro Ser Arg Phe Ser Gly Ser Gly Ser
80 85 90

Gly Thr Asp Tyr Thr Leu Thr Ile Ser Ser Leu Gln Pro Glu Asp
95 100 105

Phe Ala Thr Tyr Tyr Cys Leu Gln His Gly Glu Ser Pro Trp Thr
110 115 120

Phe Gly Gln Gly Thr Lys Val Glu Ile Lys Arg Thr Val Ala Ala
125 130 135

Pro Ser Val Phe Ile Phe Pro Pro Ser Asp Glu Gln Leu Lys Ser
140 145 150

Gly Thr Ala Ser Val Val Cys Leu Leu Asn Asn Phe Tyr Pro Arg
155 160 165

Glu Ala Lys Val Gln Trp Lys Val Asp Asn Ala Leu Gln Ser Gly
170 175 180

Asn Ser Gln Glu Ser Val Thr Glu Gln Asp Ser Lys Asp Ser Thr
185 190 195

Tyr Ser Leu Ser Ser Thr Leu Thr Leu Ser Lys Ala Asp Tyr Glu
200 205 210

Lys His Lys Val Tyr Ala Cys Glu Val Thr His Gln Gly Leu Ser
 215 220 225

Ser Pro Val Thr Lys Ser Phe Asn Arg Gly Glu Cys
 230 235

<210> 9
 <211> 470
 <212> PRT
 <213> Artificial sequence

<220>
 <223> anti-TF heavy chain

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 Ser Ile Ala Thr Asn Ala Tyr Ala Glu Val Gln Leu Val Glu Ser
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 Gly Gly Gly Leu Val Gln Pro Gly Gly Ser Leu Arg Leu Ser Cys
 35 40 45
 Ala Ala Ser Gly Phe Asn Ile Lys Glu Tyr Tyr Met His Trp Val
 50 55 60
 Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val Gly Leu Ile Asp
 65 70 75
 Pro Glu Gln Gly Asn Thr Ile Tyr Asp Pro Lys Phe Gln Asp Arg
 80 85 90
 Ala Thr Ile Ser Ala Asp Asn Ser Lys Asn Thr Ala Tyr Leu Gln
 95 100 105
 Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala
 110 115 120
 Arg Asp Thr Ala Ala Tyr Phe Asp Tyr Trp Gly Gln Gly Thr Leu
 125 130 135
 Val Thr Val Ser Ser Ala Ser Thr Lys Gly Pro Ser Val Phe Pro
 140 145 150
 Leu Ala Pro Ser Ser Lys Ser Thr Ser Gly Gly Thr Ala Ala Leu
 155 160 165
 Gly Cys Leu Val Lys Asp Tyr Phe Pro Glu Pro Val Thr Val Ser
 170 175 180
 Trp Asn Ser Gly Ala Leu Thr Ser Gly Val His Thr Phe Pro Ala
 185 190 195
 Val Leu Gln Ser Ser Gly Leu Tyr Ser Leu Ser Ser Val Val Thr
 200 205 210

Val	Pro	Ser	Ser	Ser	Leu	Gly	Thr	Gln	Thr	Tyr	Ile	Cys	Asn	Val	215	220	225
Asn	His	Lys	Pro	Ser	Asn	Thr	Lys	Val	Asp	Lys	Lys	Val	Glu	Pro	230	235	240
Lys	Ser	Cys	Asp	Lys	Thr	His	Thr	Cys	Pro	Pro	Cys	Pro	Ala	Pro	245	250	255
Glu	Leu	Leu	Gly	Gly	Pro	Ser	Val	Phe	Leu	Phe	Pro	Pro	Lys	Pro	260	265	270
Lys	Asp	Thr	Leu	Met	Ile	Ser	Arg	Thr	Pro	Glu	Val	Thr	Cys	Val	275	280	285
Val	Val	Asp	Val	Ser	His	Glu	Asp	Pro	Glu	Val	Lys	Phe	Asn	Trp	290	295	300
Tyr	Val	Asp	Gly	Val	Glu	Val	His	Asn	Ala	Lys	Thr	Lys	Pro	Arg	305	310	315
Glu	Glu	Gln	Tyr	Asn	Ser	Thr	Tyr	Arg	Val	Val	Ser	Val	Leu	Thr	320	325	330
Val	Leu	His	Gln	Asp	Trp	Leu	Asn	Gly	Lys	Glu	Tyr	Lys	Cys	Lys	335	340	345
Val	Ser	Asn	Lys	Ala	Leu	Pro	Ala	Pro	Ile	Glu	Lys	Thr	Ile	Ser	350	355	360
Lys	Ala	Lys	Gly	Gln	Pro	Arg	Glu	Pro	Gln	Val	Tyr	Thr	Leu	Pro	365	370	375
Pro	Ser	Arg	Glu	Glu	Met	Thr	Lys	Asn	Gln	Val	Ser	Leu	Thr	Cys	380	385	390
Leu	Val	Lys	Gly	Phe	Tyr	Pro	Ser	Asp	Ile	Ala	Val	Glu	Trp	Glu	395	400	405
Ser	Asn	Gly	Gln	Pro	Glu	Asn	Asn	Tyr	Lys	Thr	Thr	Pro	Pro	Val	410	415	420
Leu	Asp	Ser	Asp	Gly	Ser	Phe	Phe	Leu	Tyr	Ser	Lys	Leu	Thr	Val	425	430	435
Asp	Lys	Ser	Arg	Trp	Gln	Gln	Gly	Asn	Val	Phe	Ser	Cys	Ser	Val	440	445	450
Met	His	Glu	Ala	Leu	His	Asn	His	Tyr	Thr	Gln	Lys	Ser	Leu	Ser	455	460	465
Leu	Ser	Pro	Gly	Lys											470		

<210> 10
 <211> 237
 <212> PRT
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<220>

<223> anti-VEGF light chain

<400> 10

Met Lys Lys Asn Ile Ala Phe Leu Leu Ala Ser Met Phe Val Phe
1 5 10 15
Ser Ile Ala Thr Asn Ala Tyr Ala Asp Ile Gln Leu Thr Gln Ser
20 25 30
Pro Ser Ser Leu Ser Ala Ser Val Gly Asp Arg Val Thr Ile Thr
35 40 45
Cys Ser Ala Ser Gln Asp Ile Ser Asn Tyr Leu Asn Trp Tyr Gln
50 55 60
Gln Lys Pro Gly Lys Ala Pro Lys Val Leu Ile Tyr Phe Thr Ser
65 70 75
Ser Leu His Ser Gly Val Pro Ser Arg Phe Ser Gly Ser Gly Ser
80 85 90
Gly Thr Asp Phe Thr Leu Thr Ile Ser Ser Leu Gln Pro Glu Asp
95 100 105
Phe Ala Thr Tyr Tyr Cys Gln Gln Tyr Ser Thr Val Pro Trp Thr
110 115 120
Phe Gly Gln Gly Thr Lys Val Glu Ile Lys Arg Thr Val Ala Ala
125 130 135
Pro Ser Val Phe Ile Phe Pro Pro Ser Asp Glu Gln Leu Lys Ser
140 145 150
Gly Thr Ala Ser Val Val Cys Leu Leu Asn Asn Phe Tyr Pro Arg
155 160 165
Glu Ala Lys Val Gln Trp Lys Val Asp Asn Ala Leu Gln Ser Gly
170 175 180
Asn Ser Gln Glu Ser Val Thr Glu Gln Asp Ser Lys Asp Ser Thr
185 190 195
Tyr Ser Leu Ser Ser Thr Leu Thr Leu Ser Lys Ala Asp Tyr Glu
200 205 210
Lys His Lys Val Tyr Ala Cys Glu Val Thr His Gln Gly Leu Ser
215 220 225
Ser Pro Val Thr Lys Ser Phe Asn Arg Gly Glu Cys
230 235

<210> 11

<211> 476

<212> PRT

<213> Artificial sequence

<220>

<223> anti-VEGF heavy chain

<400> 11

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20 25 30
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35 40 45
Ala Ala Ser Gly Tyr Asp Phe Thr His Tyr Gly Met Asn Trp Val
50 55 60
Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val Gly Trp Ile Asn
65 70 75
Thr Tyr Thr Gly Glu Pro Thr Tyr Ala Ala Asp Phe Lys Arg Arg
80 85 90
Phe Thr Phe Ser Leu Asp Thr Ser Lys Ser Thr Ala Tyr Leu Gln
95 100 105
Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala
110 115 120
Lys Tyr Pro Tyr Tyr Tyr Gly Thr Ser His Trp Tyr Phe Asp Val
125 130 135
Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser Ala Ser Thr Lys
140 145 150
Gly Pro Ser Val Phe Pro Leu Ala Pro Ser Ser Lys Ser Thr Ser
155 160 165
Gly Gly Thr Ala Ala Leu Gly Cys Leu Val Lys Asp Tyr Phe Pro
170 175 180
Glu Pro Val Thr Val Ser Trp Asn Ser Gly Ala Leu Thr Ser Gly
185 190 195
Val His Thr Phe Pro Ala Val Leu Gln Ser Ser Gly Leu Tyr Ser
200 205 210
Leu Ser Ser Val Val Thr Val Pro Ser Ser Ser Leu Gly Thr Gln
215 220 225
Thr Tyr Ile Cys Asn Val Asn His Lys Pro Ser Asn Thr Lys Val
230 235 240
Asp Lys Lys Val Glu Pro Lys Ser Cys Asp Lys Thr His Thr Cys
245 250 255
Pro Pro Cys Pro Ala Pro Glu Leu Leu Gly Gly Pro Ser Val Phe
260 265 270

Leu Phe Pro Pro Lys Pro Lys Asp Thr Leu Met Ile Ser Arg Thr
 275 280 285
 Pro Glu Val Thr Cys Val Val Val Asp Val Ser His Glu Asp Pro
 290 295 300
 Glu Val Lys Phe Asn Trp Tyr Val Asp Gly Val Glu Val His Asn
 305 310 315
 Ala Lys Thr Lys Pro Arg Glu Glu Gln Tyr Asn Ser Thr Tyr Arg
 320 325 330
 Val Val Ser Val Leu Thr Val Leu His Gln Asp Trp Leu Asn Gly
 335 340 345
 Lys Glu Tyr Lys Cys Lys Val Ser Asn Lys Ala Leu Pro Ala Pro
 350 355 360
 Ile Glu Lys Thr Ile Ser Lys Ala Lys Gly Gln Pro Arg Glu Pro
 365 370 375
 Gln Val Tyr Thr Leu Pro Pro Ser Arg Glu Glu Met Thr Lys Asn
 380 385 390
 Gln Val Ser Leu Thr Cys Leu Val Lys Gly Phe Tyr Pro Ser Asp
 395 400 405
 Ile Ala Val Glu Trp Glu Ser Asn Gly Gln Pro Glu Asn Asn Tyr
 410 415 420
 Lys Thr Thr Pro Pro Val Leu Asp Ser Asp Gly Ser Phe Phe Leu
 425 430 435
 Tyr Ser Lys Leu Thr Val Asp Lys Ser Arg Trp Gln Gln Gly Asn
 440 445 450
 Val Phe Ser Cys Ser Val Met His Glu Ala Leu His Asn His Tyr
 455 460 465
 Thr Gln Lys Ser Leu Ser Leu Ser Pro Gly Lys
 470 475

Acidic